



1999 Toxics Release Inventory

SOUTH DAKOTA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	3,425,438	8,194,954	11,620,392
Air Emissions	2,057,565	329,123	2,386,688
Surface Water Discharges	1,354,662	228,331	1,582,993
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	13,211	7,637,500	7,650,711
Off-site Releases (Transfers Off-site to Disposal)*	138,803	369,782	508,585
Total On- and Off-site Releases	3,564,241	8,564,736	12,128,977
Recycled On-site	262,082	0	262,082
Recycled Off-site	729,930	44,200	774,130
Energy Recovery On-site	1,294,300	0	1,294,300
Energy Recovery Off-site	377,359	0	377,359
Treated On-site	2,013,247	2,302,265	4,315,512
Treated Off-site**	631,408	5	631,413
Quantity Released On- and Off-site***	3,504,320	8,530,930	12,035,250
Total Production-related Waste Managed	8,812,646	10,877,400	19,690,046
Total Non-production-related Waste Managed	3,248	24	3,272

Transfers Off-site for Further Waste Management/Disposal

Recycling	817,358	44,209	861,567
Energy Recovery	369,281	0	369,281
Treatment	413,440	0	413,440
Publicly Owned Treatment Works (POTWs)	242,720	0	242,720
Metals and Metal Compounds*	844	0	844
Non-metal TRI Chemicals**	241,876	0	241,876
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	138,059	369,782	507,841
Total Transfers Off-site for Further Waste Management/Disposal	1,980,858	413,991	2,394,849

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

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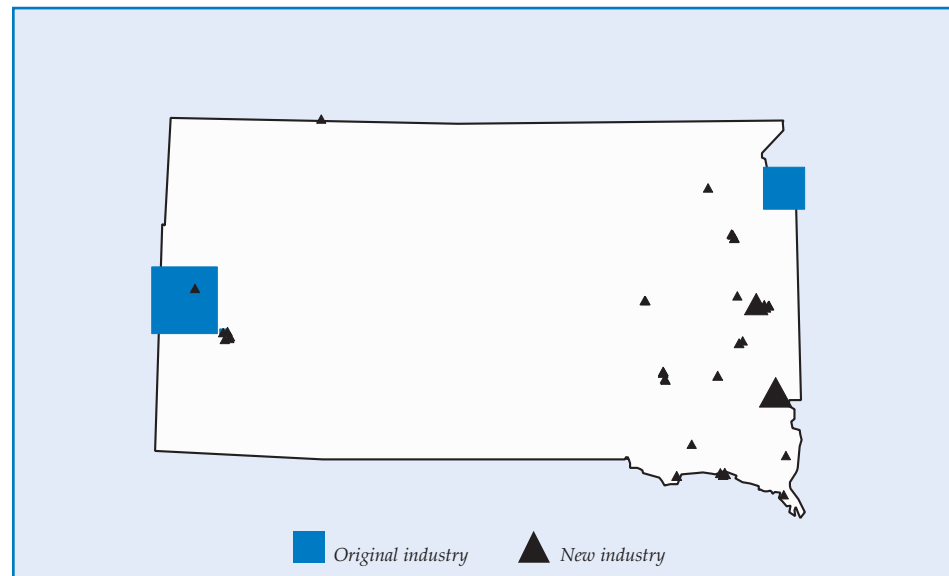
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To obtain TRI data use

assistance, call TRI User
Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of South Dakota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	733,133
Square Miles	75,896
Total Facilities	75
Total Forms	162
Form As	25

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	45	40	43
Pounds	3,564,241	8,564,736	12,128,977
National Rank for Total On-site Releases**			
Rank	45	40	43
Pounds	3,425,438	8,194,954	11,620,392
National Rank for Total Releases within State***			
Rank	45	40	43
Pounds	3,560,650	8,341,535	11,902,185
National Rank for Production-related Waste Managed			
Rank	48	42	49
Pounds	8,812,646	10,877,400	19,690,046

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	0	1,354,295	0	0	76	1,354,371	0	76	0
110-54-3	n-Hexane	922,201	0	0	0	0	922,201	0	0	0
1330-20-7	Xylene (mixed isomers)	520,408	0	0	1,473	755	522,636	0	755	0
7664-41-7	Ammonia	127,455	199	0	0	21,772	149,426	0	21,772	0
108-88-3	Toluene	133,015	0	0	6,666	750	140,431	0	750	0
100-42-5	Styrene	135,072	0	0	0	0	135,072	0	0	0
--	Glycol ethers	47,270	0	0	0	0	47,270	0	0	0
110-82-7	Cyclohexane	39,250	0	0	0	0	39,250	0	0	0
78-93-3	Methyl ethyl ketone	37,167	0	0	0	0	37,167	0	0	0
--	Zinc compounds	10	0	0	0	35,115	35,125	0	34,675	440

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Arsenic compounds	248	335	0	4,400,000	0	4,400,583	0	0	0
--	Zinc compounds	1,053	0	0	1,500,000	242,400	1,743,453	0	80,700	161,700
--	Barium compounds	3,250	51	0	820,000	107,671	930,972	0	59,131	48,540
--	Nitrate compounds	0	221,950	0	298,000	5	519,955	0	0	5
--	Copper compounds	121	5	0	346,000	4,271	350,397	0	1,440	2,831
--	Manganese compounds	469	0	0	170,000	15,430	185,899	0	5,310	10,120
7664-39-3	Hydrogen fluoride	85,000	0	0	0	0	85,000	0	0	0
7647-01-0	Hydrochloric acid	70,000	0	0	0	0	70,000	0	0	0
67-56-1	Methanol	57,000	4,350	0	250	0	61,600	0	0	0
7439-96-5	Manganese	1	11	0	59,000	0	59,012	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
John Morrell & Co., Sioux Falls, Minnehaha	122,953	1,354,494	0	0	0	0	1,477,447	21,893	0
South Dakota Soybean Processors, Volga, Brookings	902,951	0	0	0	0	0	902,951	0	0
3M Health Care Brookings, Brookings, Brookings	229,805	0	0	0	0	0	229,805	0	0
Alcoa Extrusions Inc., Yankton, Yankton	137,527	0	0	0	0	0	137,527	25	2,995
Raven Inds. Inc., Sioux Falls, Minnehaha	122,344	0	0	0	0	0	122,344	0	0
Starmark Inc., Sioux Falls, Minnehaha	53,725	0	0	0	0	0	53,725	0	0
SMC Corp., Sioux Falls, Minnehaha	51,038	0	0	0	0	0	51,038	0	0
Chicago Rawhide of Springfield, Springfield, Bon Homme	49,510	0	0	0	0	0	49,510	1,145	0
Feterl Mfg. Co., Salem, Mc Cook	43,380	0	0	0	0	0	43,380	0	0
Kolberg-Pioneer Inc., Yankton, Yankton	24,475	0	0	0	0	13,167	37,642	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Homestake Mine, Lead, Lawrence	64,248	202,899	0	0	0	4,413,000	4,680,147	0	0
Big Stone Plant, Big Stone City, Grant	201,552	0	0	0	0	2,520,000	2,721,552	111,850	223,191
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	57,006	25,381	0	0	0	704,500	786,887	0	10
BHPL-Ben French Power Plant, Rapid City, Pennington	6,317	51	0	0	0	0	6,368	34,731	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
John Morrell & Co., Sioux Falls, Minnehaha	0	0	0	0	212,955	27,235	1,477,827	1,718,017	45
South Dakota Soybean Processors, Volga, Brookings	0	0	0	0	0	0	902,951	902,951	0
3M Health Care Brookings, Brookings, Brookings	0	0	1,294,300	705	434,260	237,650	229,500	2,196,415	0
Alcoa Extrusions Inc., Yankton, Yankton	0	4,300	0	242,400	469,068	2,200	136,017	853,985	0
Raven Inds. Inc., Sioux Falls, Minnehaha	0	0	0	2,100	0	0	122,000	124,100	0
Starmark Inc., Sioux Falls, Minnehaha	0	0	0	12,984	0	0	53,725	66,709	0
SMC Corp., Sioux Falls, Minnehaha	1,000	0	0	0	0	150	51,038	52,188	0
Chicago Rawhide of Springfield, Springfield, Bon Homme	0	13,461	0	14,784	0	0	50,659	78,904	0
Feterl Mfg. Co., Salem, Mc Cook	0	7,069	0	0	0	0	43,380	50,449	0
Gehl Co., Madison, Lake	0	64,985	0	0	0	0	41,176	106,161	1

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Homestake Mine, Lead, Lawrence	0	0	0	0	747,500	0	4,677,770	5,425,270	24
Big Stone Plant, Big Stone City, Grant	0	0	0	0	371,000	0	3,024,000	3,395,000	0
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	0	44,200	0	0	1,183,765	5	788,060	2,016,030	0
BHPL-Ben French Power Plant, Rapid City, Pennington	0	0	0	0	0	0	41,100	41,100	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.